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Wenstrand et al.

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(54) **USING EYE DETECTION FOR PROVIDING CONTROL AND POWER MANAGEMENT OF ELECTRONIC DEVICES**

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(58) **Field of Classification Search** 250/221, 250/214 R; 351/209, 210; 396/51; 345/211, 345/156

See application file for complete search history.

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(57) **ABSTRACT**

Eye detection is used as the basis for providing power management or other variations of operational parameters of a controlled device. The system includes an imager and eye detection processing which cooperate to detect light received from a person's eye. The eye detection processing generates an output that can be used for determinations regarding presence of one or more persons or presence of a specific person. This output is used as the basis for switching the controlled device between at least two power consumption states. Eye detection may also be used to allow a person to actively adjust operational conditions of the controlled device, since unnatural eye blinking patterns may be associated with particular commands.

17 Claims, 5 Drawing Sheets

